

FIG. 1

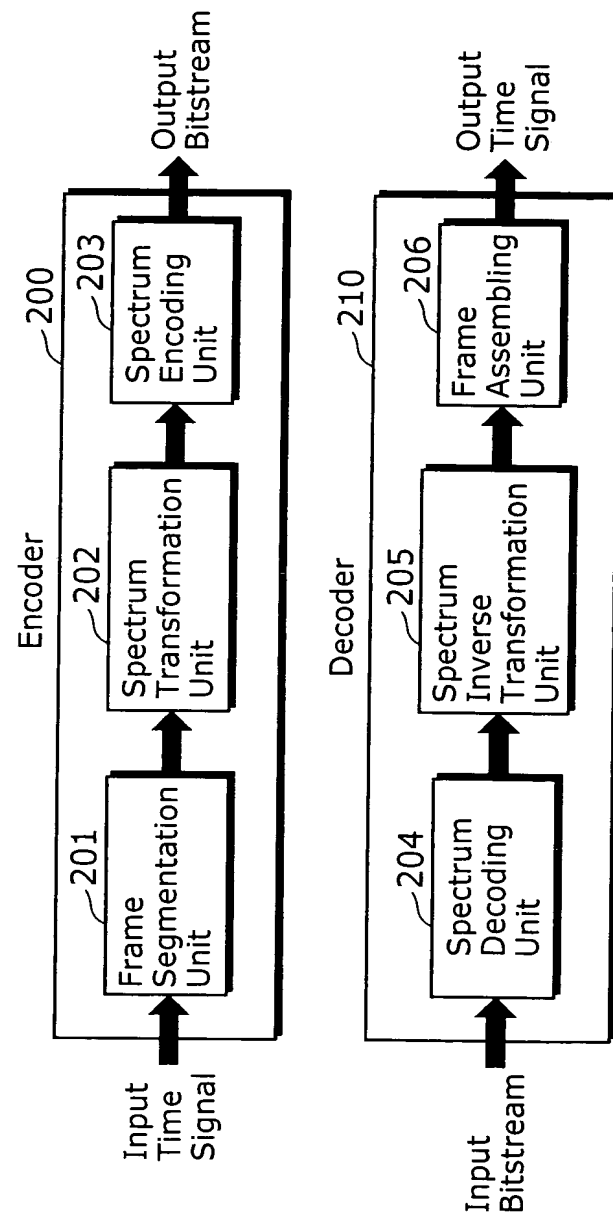


FIG. 2

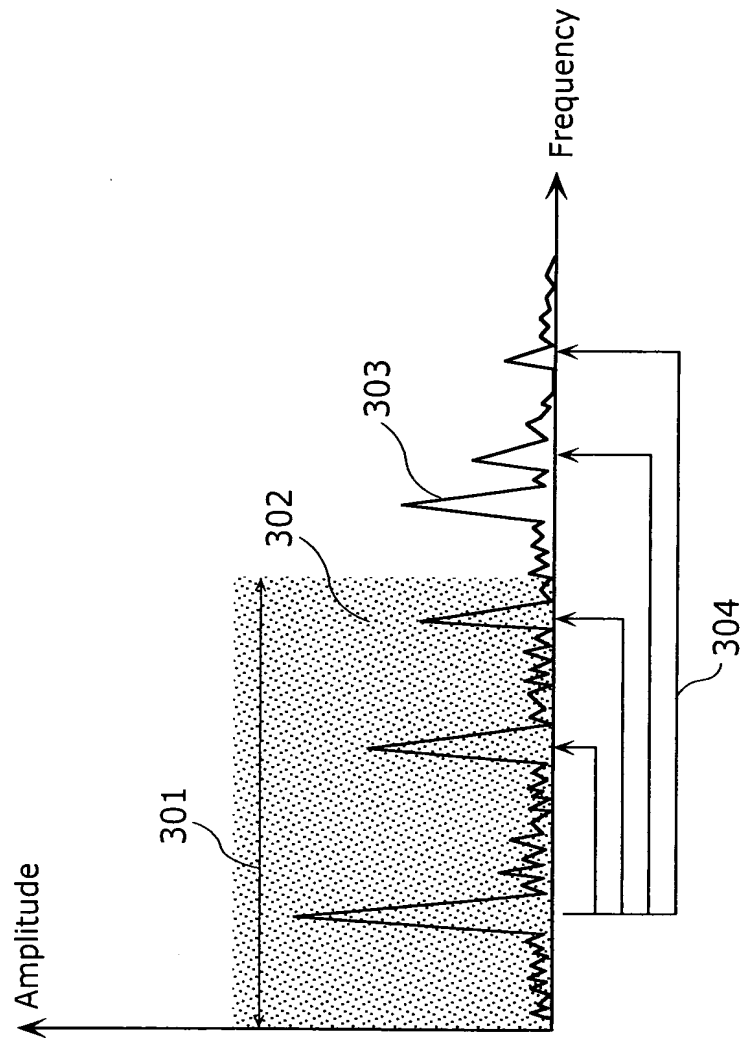
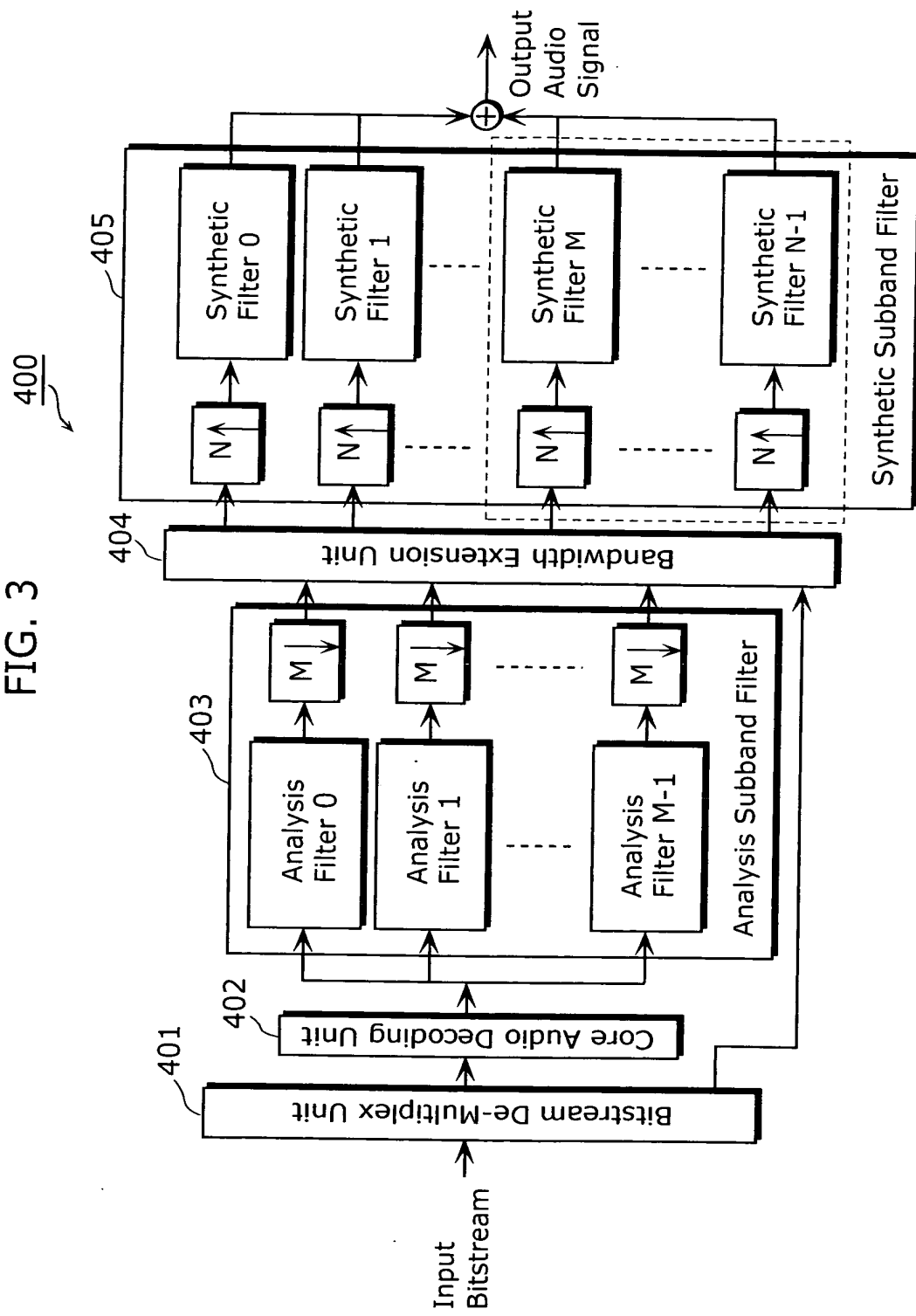


FIG. 3



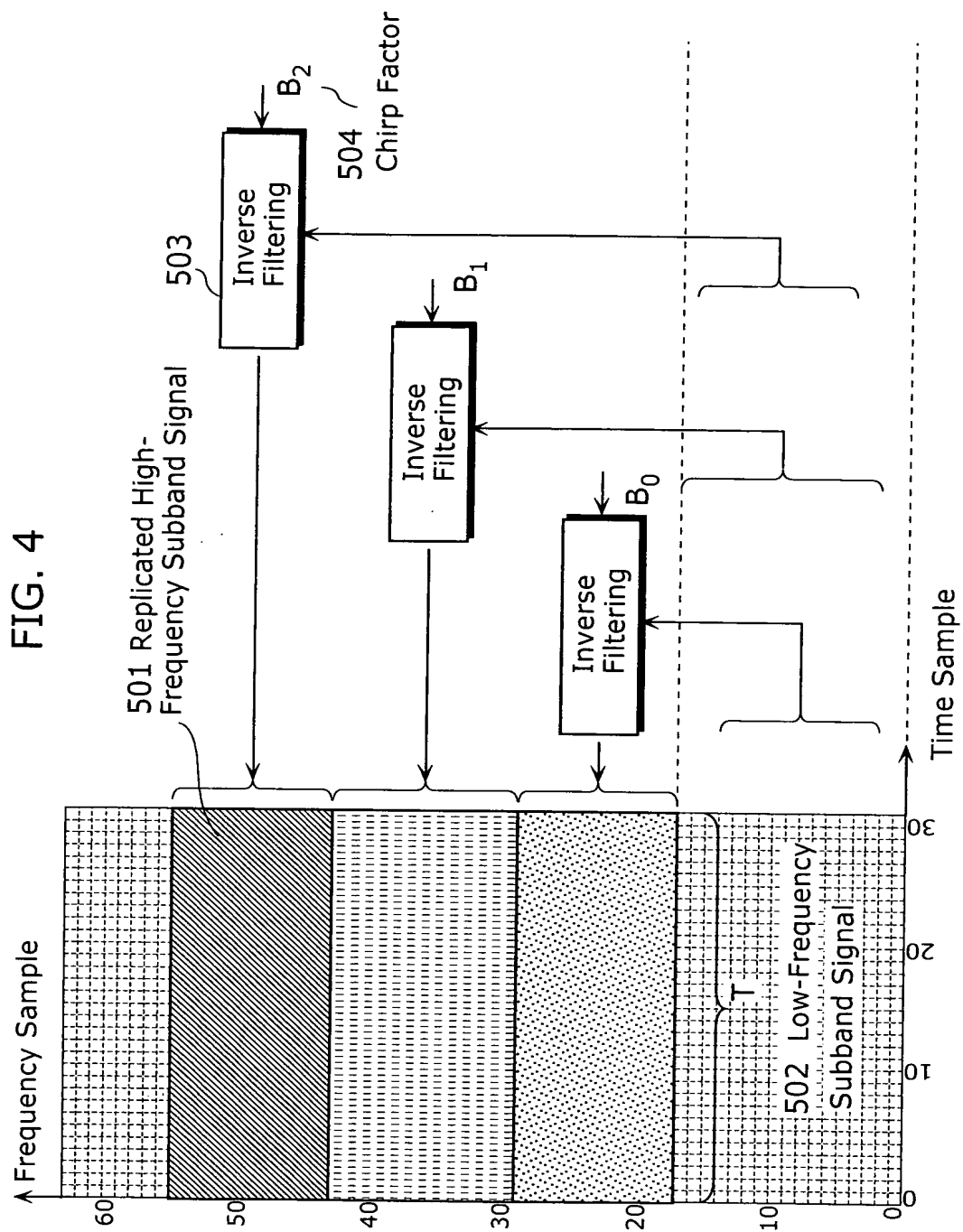


FIG. 5

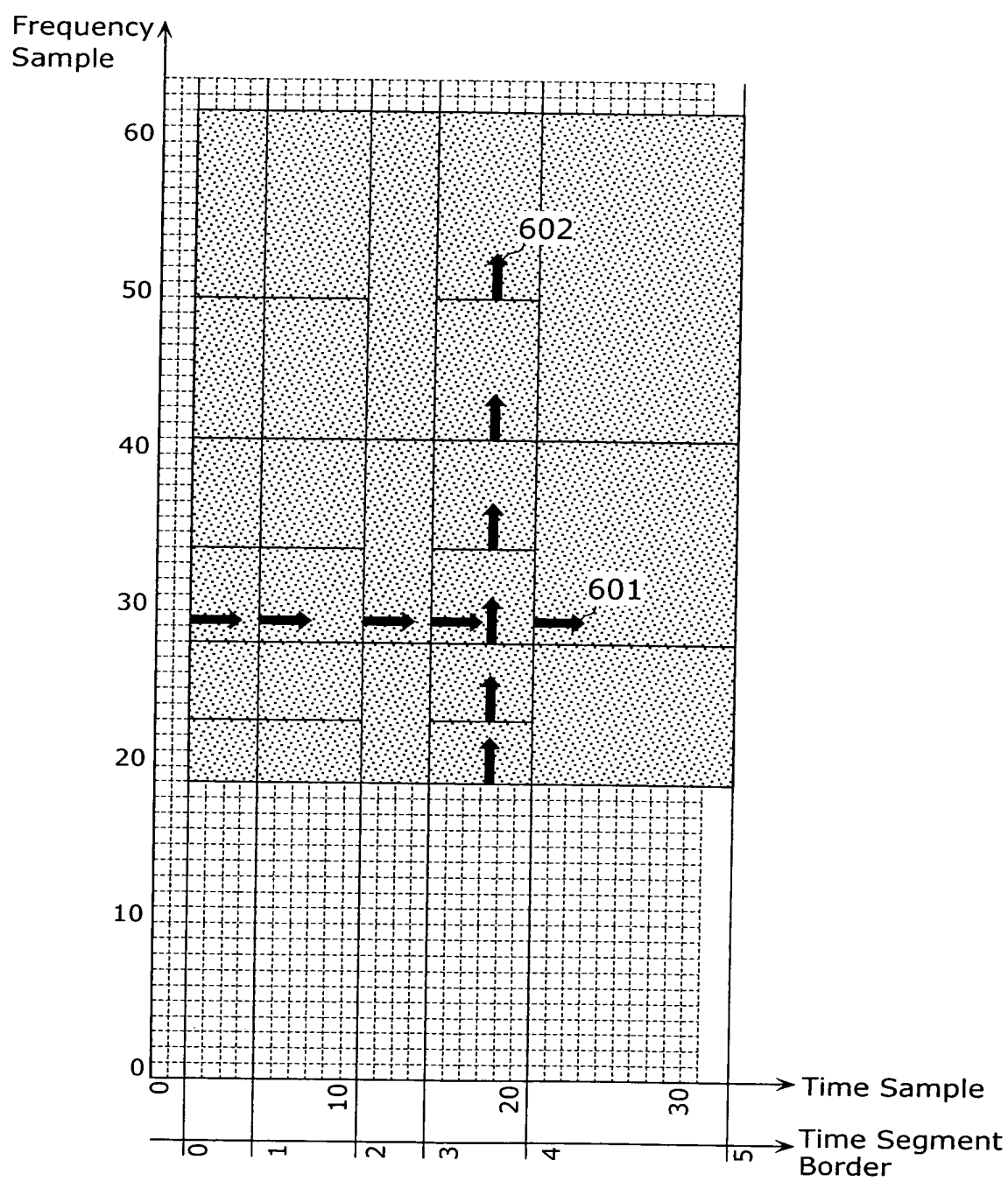


FIG. 6A

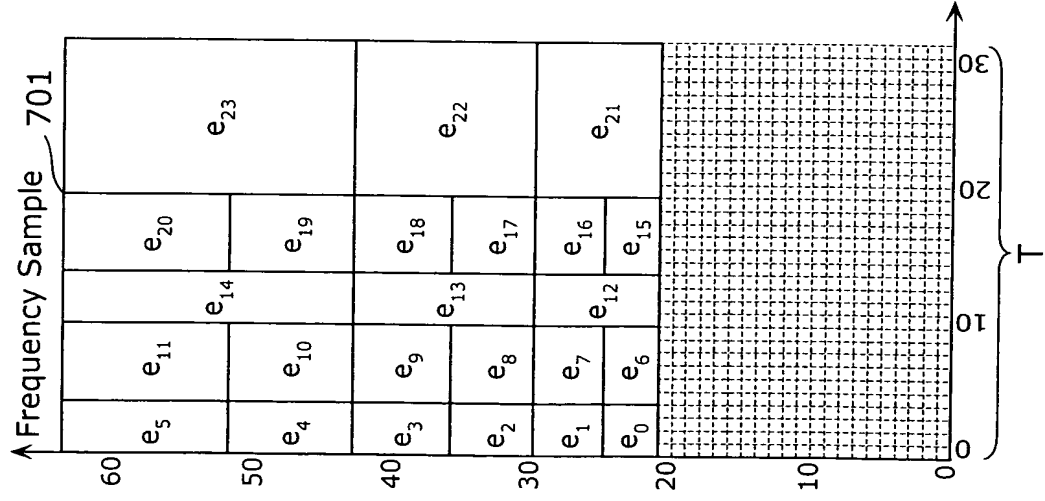


FIG. 6B

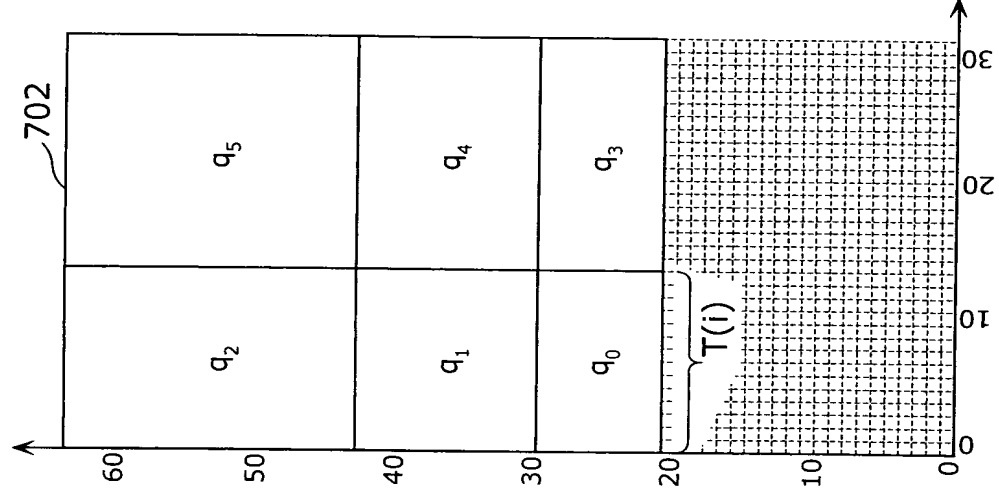


FIG. 6C

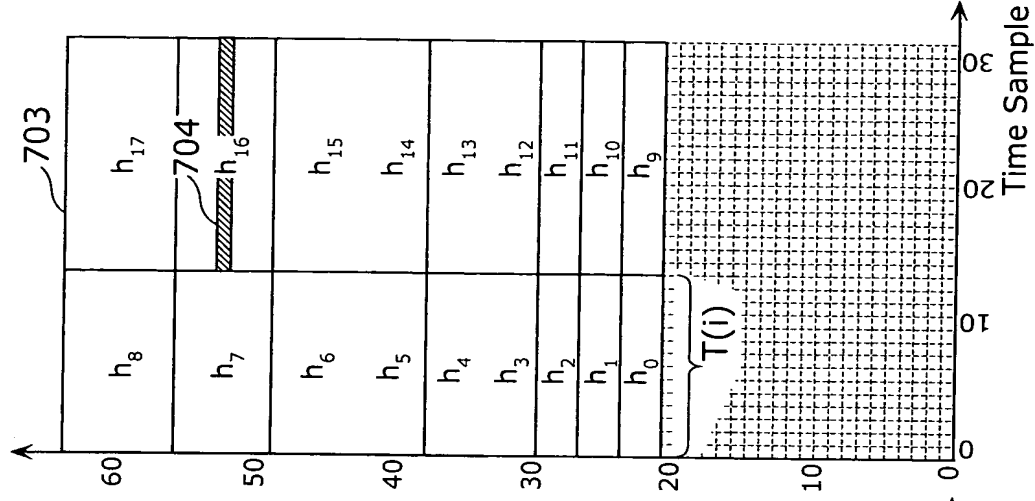


FIG. 7

	Energy Value of Replicated High-Frequency Subband Signal	Energy Value of Artificially Added Noise Component	Energy Value of Artificially Added Tone Component
If $H(t,k)=0$ (Without Sinewave Addition)	$E(t,k) \left(\frac{1}{1+Q(t,k)} \right)$	$E(t,k) \left(\frac{Q(t,k)}{1+Q(t,k)} \right)$	0
If $H(t,k)=1$ (With Sinewave Addition)	$E(t,k) \left(\frac{Q(t,k)}{1+Q(t,k)} \right)$	0	$E(t,k) \left(\frac{1}{1+Q(t,k)} \right)$

FIG. 8

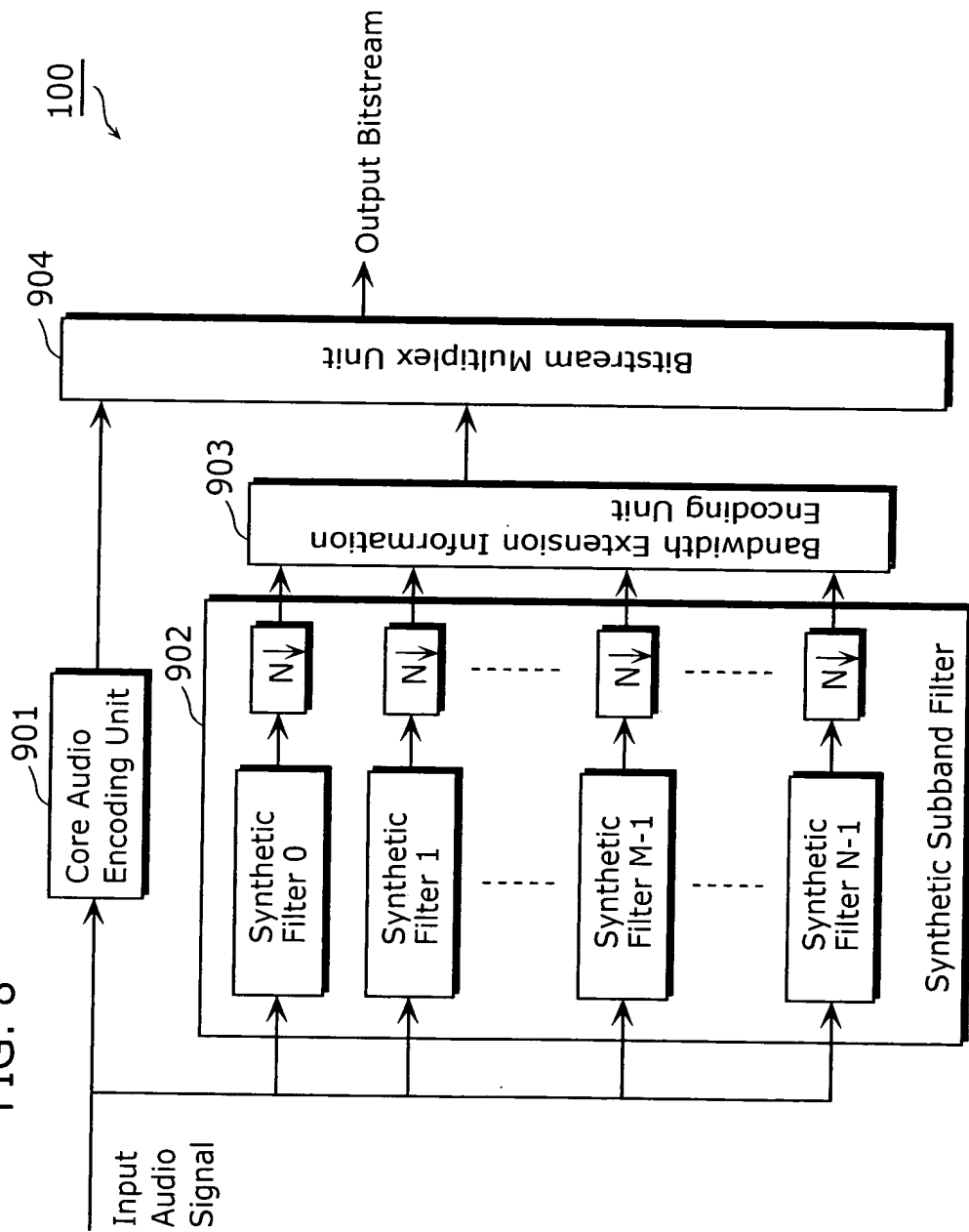


FIG. 9

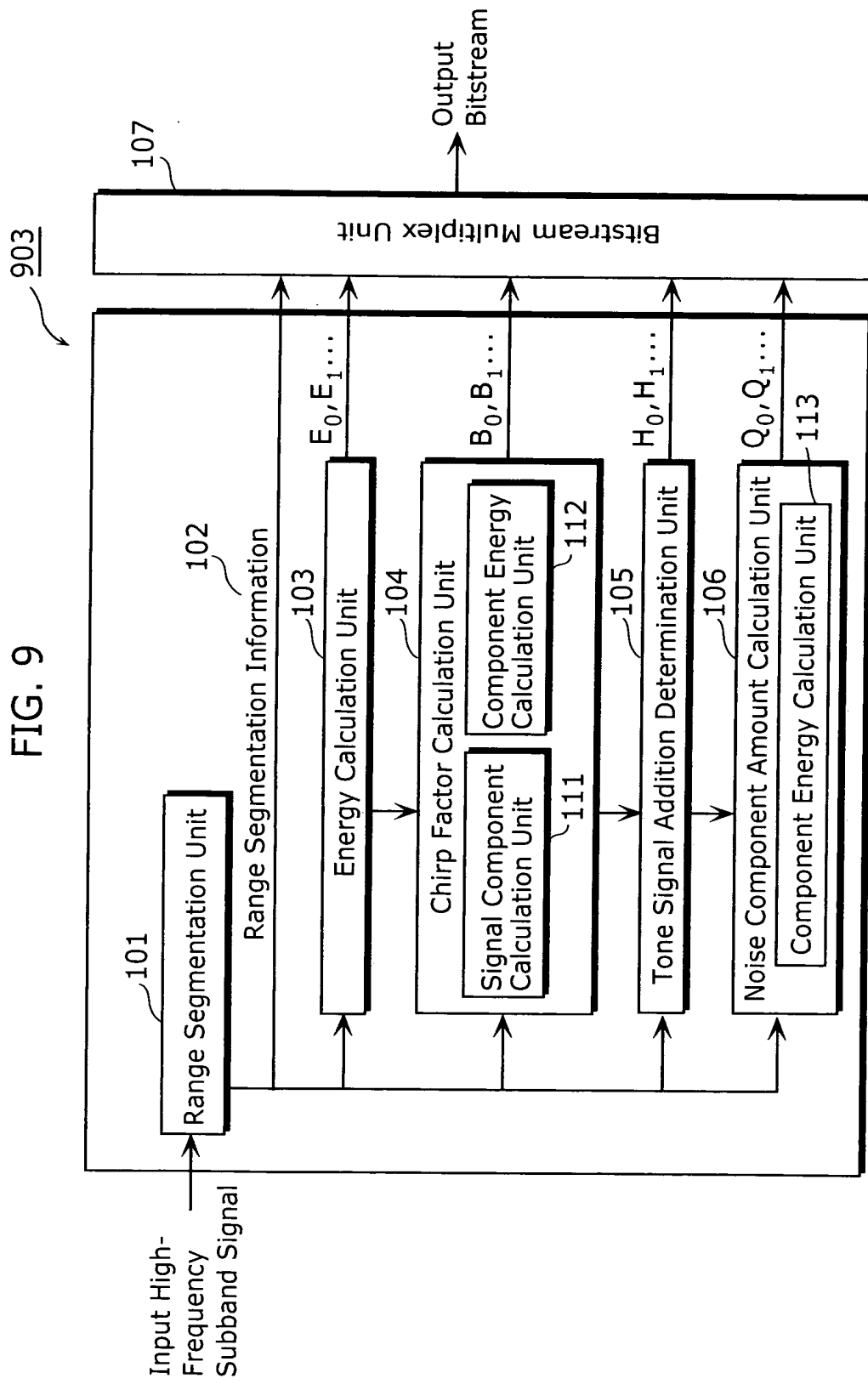


FIG. 10

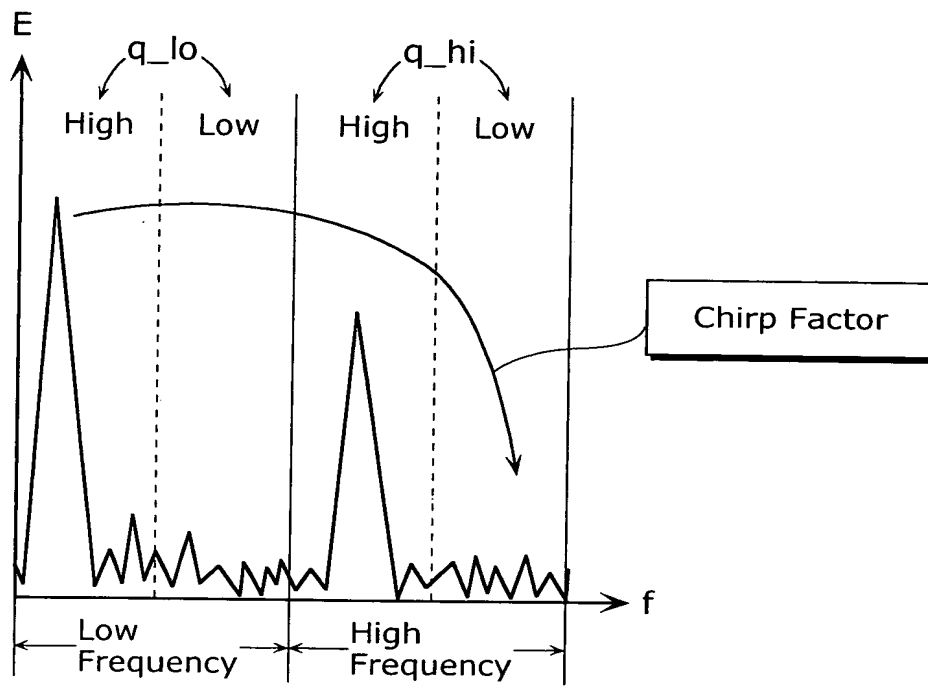


FIG. 11

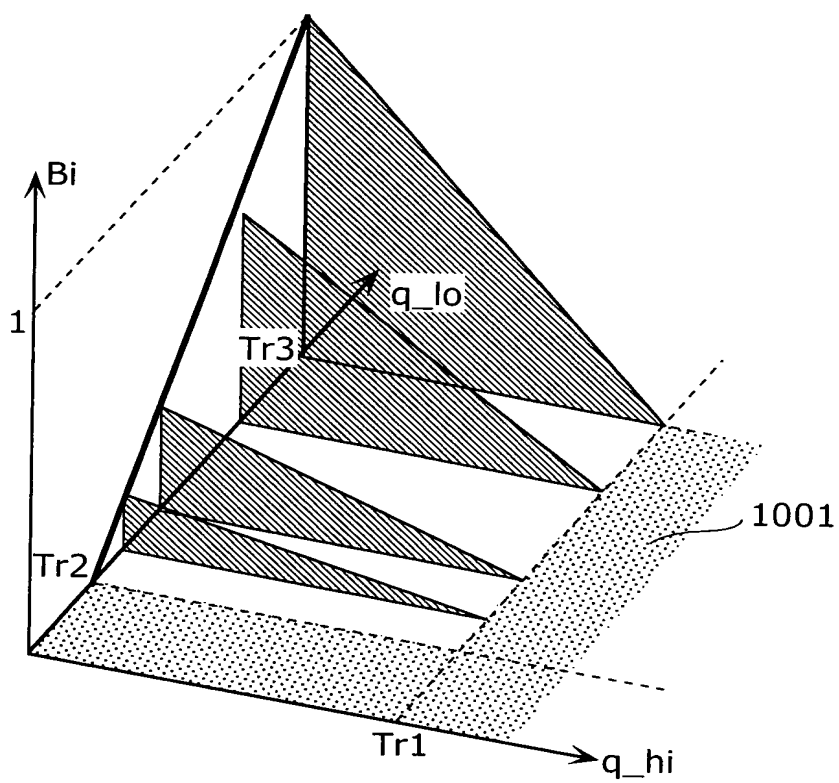
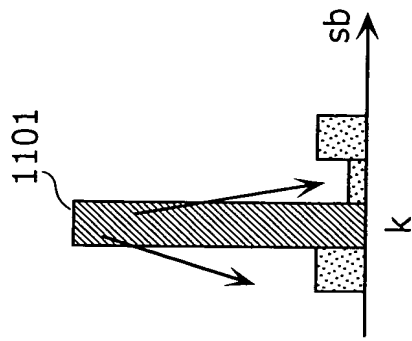
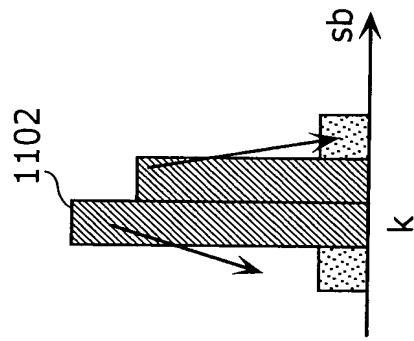


FIG. 12

(a)



(b)



(c)

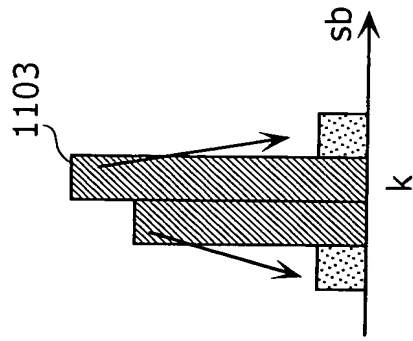


FIG. 13

Case	(1101) Tone is in k	(1102) Tone is between k, k+1	(1103) Tone is between k, k-1
Energy Criteria	$E(k) > \text{Ethres} * E(k-1)$ AND $E(k) > \text{Ethres} * E(k+1)$	$E(k) > \text{Ethres} * E(k-1)$ AND $E(k+1) > \text{Ethres} * E(k+2)$	$E(k) > \text{Ethres} * E(k+1)$ AND $E(k-1) > \text{Ethres} * E(k-2)$
Tonality Criteria	$q_hi(k) > Qthres$	$q_hi(k) > Qthres$ OR $q_hi(k+1) > Qthres$	$q_hi(k) > Qthres$ OR $q_hi(k-1) > Qthres$

FIG. 14

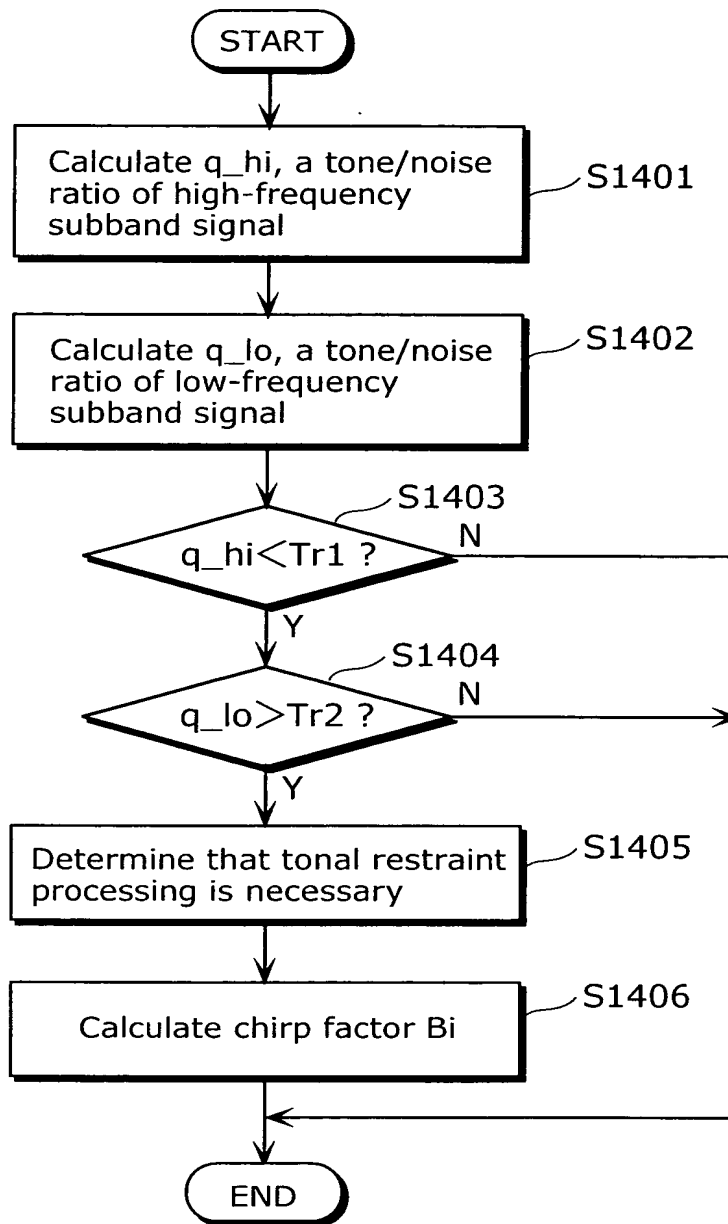


FIG. 15

